from tkinter import \*

from configparser import ConfigParser

from tkinter import messagebox

import requests

import json

url= "http://api.openweathermap.org/data/2.5/weather?q={}&appid={}"

config\_file='config.ini'

config= ConfigParser()

config.read(config\_file)

api\_key=config['api\_key']['key']

def get\_weather(city):

result=requests.get(url.format(city,api\_key))

if result:

json=result.json() #City,country, celsius, fahrenheit, icon, weather

city= json['name']

country=json['sys']['country']

kelvin\_temp=json['main']['temp']

celsius\_temp= kelvin\_temp-273.15

fahr\_temp= (kelvin\_temp-273.15) \* 9/5 + 32

icon=json['weather'][0]['icon']

weather=json['weather'][0]['main']

final=(city,country,celsius\_temp,fahr\_temp,icon,weather)

return final

else:

return None

def search():

city=city\_text.get()

weather=get\_weather(city)

if weather:

location\_lab['text']= "{}, {}".format(weather[0], weather[1])

img["file"]="Weather\_icons/{}.png".format(weather[4])

temp\_lab['text']="{:.2f}°C, {:.2f}°F".format(weather[2],weather[3])

weather\_lab['text']= weather[5]

else:

messagebox.showerror('Error',"City NOT FOUND {}".format(city))

app=Tk()

app.title("Weather app")

app.geometry("700x350")

city\_text=StringVar()

city\_entry= Entry(app, textvariable=city\_text)

city\_entry.pack()

search\_but=Button(app,text="Search",width=12,command=search)

search\_but.pack()

location\_lab= Label(app,text="", font=('bold',18))

location\_lab.pack() #display the location on the screen

img= PhotoImage(file='')

image=Label(app,image=img)

image.pack()

temp\_lab=Label(app,text="")

temp\_lab.pack() #display the Temperature on the screen

weather\_lab=Label(app,text="")

weather\_lab.pack() #display the Weather on the screen

app.mainloop()